

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY JOHN AUERBACH

COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

01/31/2011

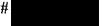
Sarah Solomon Assistant District Attorney, Suffolk County

Dear ADA Solomon,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:



- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Annie Dookhan & Daniel Renczkowski.
- 3. Control Cards with analytical results for samples #



- 4. Analysis sheets with chemist's hand notations and test results.
- 5. GC analytical date for sample #



6. GC/Mass Spectral analytical data for samples #



I, Annie Dookhan, was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renczkowski was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Annie Khan (Dookhan)

Chemist II

Sincerely

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631



CC #		
воок #	63	
PAGE #	123	

DRUG RECEIPT	PA	PAGE #				
	DE	DESTRUCTION #				
District/Unit A-1 DCU						
Name & Rank of Arresting OfficerS/D	Win I	DWAN	ID#/0c	260		
DEFENDANT'S NAME	AC	DDRESS	CITY	STATE		
			Zosto N	MA		
			8037074			
			LAB US	SE ONLY		
DESCRIPTION OF ITEMS SUBMITTED		GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER		
cen el cocatae		1 8/3	1.99 gm			
MARIJUANA		1 P/B	1,99 pm			
,			, - V - V			
	····					
	AMPONIUM TO THE TOTAL PROPERTY OF THE TOTAL					
		W. W. W.				
	>					
To be completed by ECU personnel only						
Name and Rank of Submitting Officer		h thete.	ID# 110	064		
Taine and Italik of Oubmitting Officer	1		ID#	$2\pi/\lambda$		
Received by			•	×7./0		
' BPD Form 0038-BIS-0907 (prev. 1753)			ECU Control #	8 :4∰\$⊅.		
The soun occordio cact thiese 1100)				O - 25 (1987)		

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

OC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice - Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Daniel Renezkowski

Education

Degree:

Bachelors of Science in Forensic Chemistry,

May 2005 from Buffalo State College

GPA: 3.84, Dean's List, Honor's Recognition American Chemical Society Undergraduate Award

Phi Lambda Upsilon Membership

Related Coursework: Analytical Chemistry

Organic Chemistry I and II

Biochemistry

Chemistry of Criminalistics

Anatomy

Physical Chemistry

Instrumental Chemistry Forensics Laboratory

Physical Evidence

Physiology

Employment

Massachusetts Department of Public Health Drug Analysis Laboratory Chemist I (October 2005 – March 2008) Chemist II (March 2008 – present)

- -Successfully completed an eight week training course in the analysis of drugs conducted by senior staff
- -Successfully completed GC/MS training program
- -Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws
- -Responsible for maintenance and repairs of analytical instruments
- -Responsible for quality control of analytical instruments and standards

Related Experience

Niagara County Forensics Laboratory Forensic Internship, January 2005

- -Conducted research on the presumptive testing of saliva
- -Conducted research on the identification and detection of lubricants
- -Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology
- -Daily use of FTIR microscope and DuraSamplerII
- -Familiarized with GC/MS programs

Date Analyzed:

12-13-10

City: Boston D.C.U. Police Dept. Officer: P.O. SYBIL WHITE

Def:

Amount:

Gross Wt.:

Subst: SUB

No. Cont: Cont: pb

Date Rec'd: 11/24/2010

1.99

No. Analyzed:

Net Weight: 0.45

Tests: 6 A SO JR

Prelim: MICNOWN (SULFAMERICKOZOLE)

Findings: Sulfamethoxazole

Folk_OIG_PRR_036267

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY AGENCY RO. of samples tested:	SOS YPD ANALYST A SO Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt (): 0.5364
White Chancel superar	ace Gross Wt ():
17.65	Pkg. Wt:
	Net Wt: 0.4596
· · · · · · · · · · · · · · · · · · ·	No. 111. 0. 45.76
(broken tablet)	
Section 1995	
PRELIMINARY TESTS	
Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate () -	Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
	DILE = -
Mecke's	GC = to
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Suifamethanole	RESULTS Surfamethologo
DATE 11-26-13	MS OPERATOR 050
	DATE 12-13-10

Revised 7/2005

Sequence Table (Front Injector):

Method and Injection Info Part:

	Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
:	====				======		
	1	Vial 1	BLANK	SCREEN	1	Sample	1
	2	Vial 2	COKE/CODEINE STD	SCREEN	1	Sample	1
	3	Vial 3	BLANK	SCREEN	1	Sample	1
	4	Vial 4		SCREEN	1	Sample	1
	5	Vial 5	BLANK	SCREEN	1	Sample	1
	6	Vial 6		SCREEN	1	Sample	1
	7	Vial 7	BLANK	SCREEN	1	Sample	1

Sequence Table (Back Injector):

No entries - empty table!

ASO 10

Data File C:\CHEM32\1\DATA\SIG1000001.D

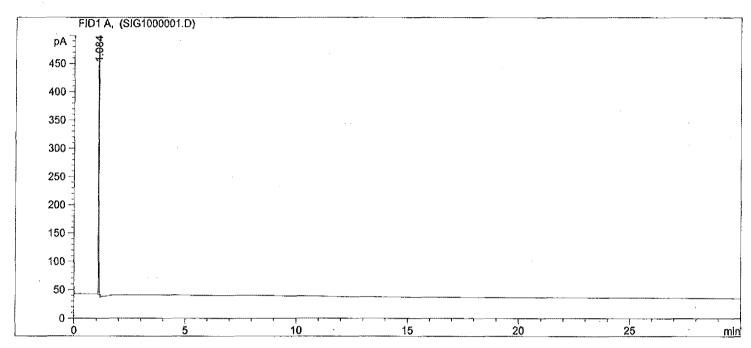
Sample Name: BLANK

Acq. Operator Seq. Line: 1 : ASD Acq. Instrument : DrugLab GC #2 Location : Vial 1

Injection Date : 11/29/2010 9:57:44 AM Inj: 1 Inj Volume : 1 μ l

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S Method : C:\CHEM32\1\METHODS\SCREEN.M

Last changed : 7/27/2010 2:36:10 PM



Area Percent Report

Sorted By Retention Time Multiplier: 1.0000 : Dilution: 1.0000

Sample Amount: : 1.00000 [ng/ul] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak	RetTime	Sig	Туре	Area	Height	Area	
				[pA*s]		*	

1	1,084	1	BB S	6.02856e4	6.42658e4	1.000e2	

Totals : 6.02856e4 6.42658e4

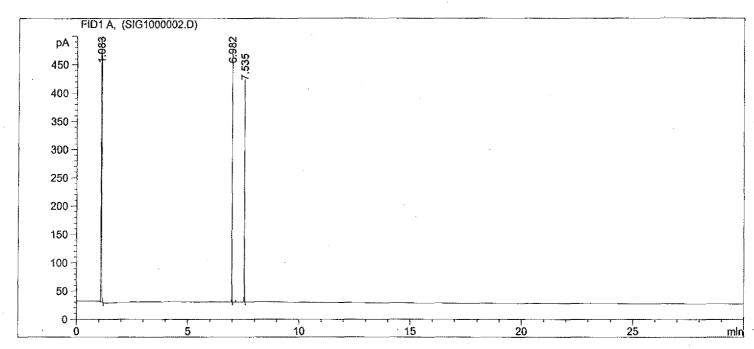
Data File C:\CHEM32\1\DATA\SIG1000002.D

Sample Name: COKE/CODEINE STD

Acq. Operator : ASD Seq. Line : 2
Acq. Instrument : DrugLab GC #2 Location : Vial 2
Injection Date : 11/29/2010 10:32:23 AM Inj : 1

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\SCREEN.M

Last changed : 7/27/2010 2:36:10 PM



Inj Volume : 1 μ l

Area Percent Report

Sorted By : Retention Time Multiplier: : 1.0000 Dilution: : 1.0000

Sample Amount: : 1.00000 [ng/ul] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

#		•			Height [pA]	
1	1.083	1	BB S	6.08631e4	7.57572e4	98.96840
2	6.982	1	BB	330.96982	427.57883	0.53818
. 3	7.535	1	BB	303.43619	386.72580	0.49341

Totals: 6.14975e4 7.65715e4

Data File C:\CHEM32\1\DATA\SIG1000003.D

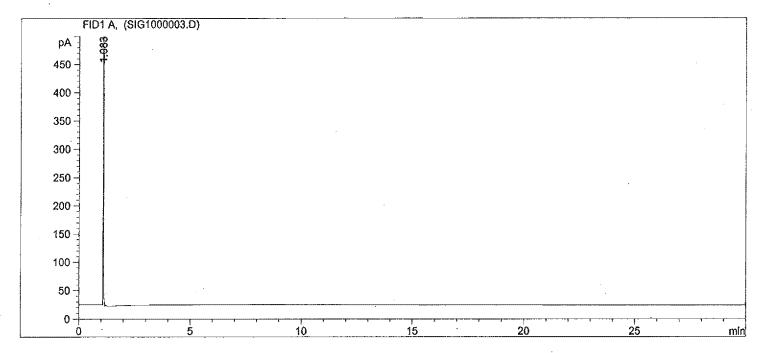
Sample Name: BLANK

Acq. Operator : ASD Seq. Line : 3
Acq. Instrument : DrugLab GC #2 Location : Vial 3
Injection Date : 11/29/2010 11:07:05 AM Inj : 1

Inj Volume : 1 μ l

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\SCREEN.M

Last changed : 7/27/2010 2:36:10 PM



Area Percent Report

Sorted By : Retention Time Multiplier: : 1.0000 Dilution: : 1.0000

Sample Amount: : 1.00000 [ng/ul] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Totals: 6.33810e4 7.60666e4

Data File C:\CHEM32\1\DATA\SIG1000005.D

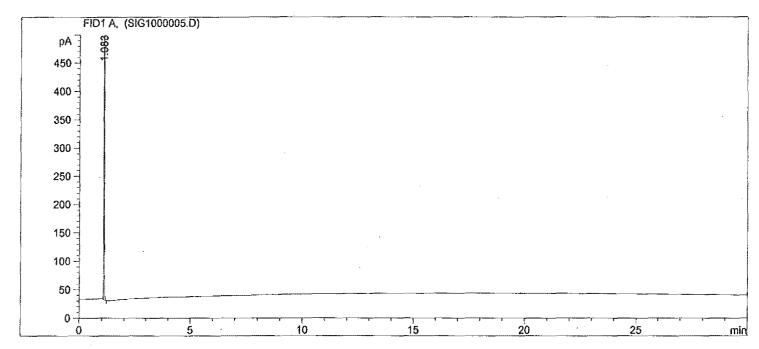
Sample Name: BLANK

Acq. Operator : ASD Seq. Line : 5 Acq. Instrument : DrugLab GC #2 Location : Vial 5 Injection Date : 11/29/2010 12:16:33 PM Inj: 1

Inj Volume : 1 μ l

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S Method : C:\CHEM32\1\METHODS\SCREEN.M

Last changed : 7/27/2010 2:36:10 PM



Area Percent Report

Sorted By Retention Time

Multiplier: : 1.0000 Dilution: 1.0000

1.00000 [ng/ul] (not used in calc.) Sample Amount:

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak RetTime Sig Type Area Height Area [pA] [pA*s] # [min]

1.083 1 BB S 6.39481e4 7.75934e4 1.000e2

Totals : 6.39481e4 7.75934e4

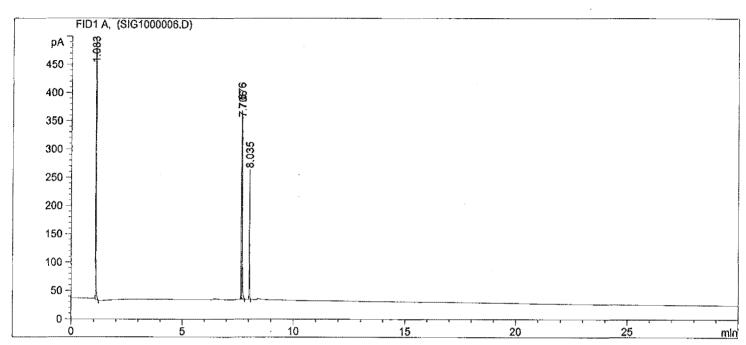
Sample Name:

Acq. Operator : ASD Seq. Line : 6
Acq. Instrument : DrugLab GC #2 Location : Vial 6
Injection Date : 11/29/2010 12:51:20 PM Inj : 1

Inj Volume : 1 μ l

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\SCREEN.M

Last changed : 7/27/2010 2:36:10 PM



Area Percent Report

Sorted By : Retention Time Multiplier: : 1.0000 Dilution: : 1.0000

Sample Amount: : 1.00000 [ng/ul] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak	RetTime	Sig	Туре	Area	Height	Area
#	[min]			[pA*s]	[pA]	8
1	1.083	1	BB S	5.96206e4	7.47907e4	97.50811
2	7.676	1	BV	689.87671	331.95352	1.12828
3	7.706	1	VB	511.04617	316.89093	0.83580
4	8.035	1	BB	322.72382	226.25529	0.52781

Totals: 6.11442e4 7.56658e4

Data File C:\CHEM32\1\DATA\SIG1000007.D

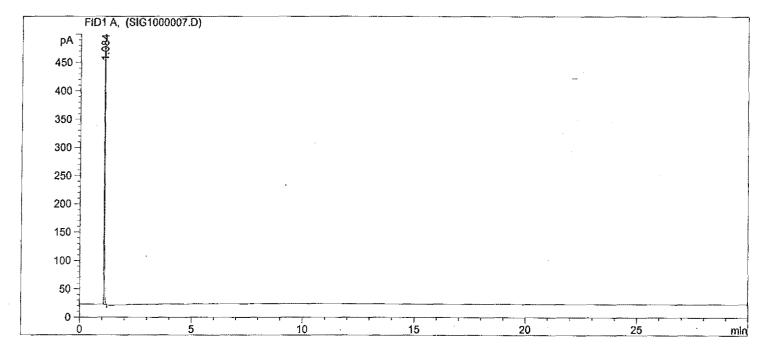
Sample Name: BLANK

Acq. Operator : ASD Seq. Line : 7
Acq. Instrument : DrugLab GC #2 Location : Vial 7

Injection Date : 11/29/2010 1:26:05 PM Inj : 1 Inj Volume : 1 μ l

Sequence File : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method : C:\CHEM32\1\METHODS\SCREEN.M

Last changed : 7/27/2010 2:36:10 PM



Area Percent Report

Sorted By : Retention Time Multiplier: : 1.0000

Dilution: : 1.0000

Sample Amount: : 1.00000 [ng/ul] (not used in calc.)

Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Totals :

6.42690e4 6.73262e4

File Name : D:\System8\12_10_10\760205.D Operator : DJR

Date Acquired : 10 Dec 2010 11:41

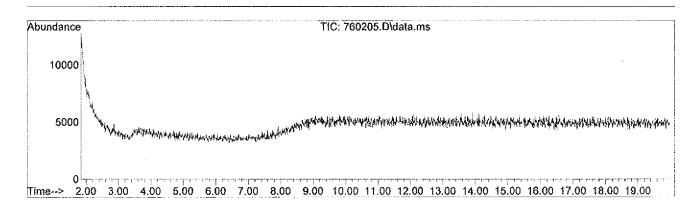
Sample Name : BLANK

Submitted by

Vial Number

AcquisitionMeth: GENSCN.M

; RTE Integrator



Ret. Time

Area

Area

Ratio %

NO INTEGRATED PEAKS

File Name : D:\System8\12_10_10\760206.D

Operator : DJR

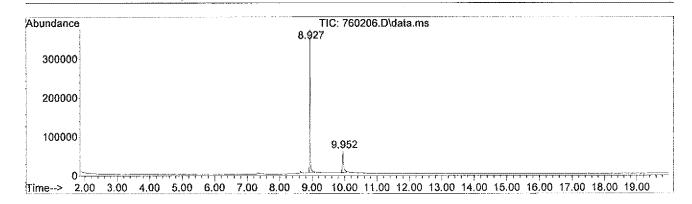
Date Acquired : 10 Dec 2010 12:04 Sample Name : SULFAMETHOXAZOLE STD

Submitted by :

Vial Number : 6

AcquisitionMeth: GENSCN.M

Integrator : RTE

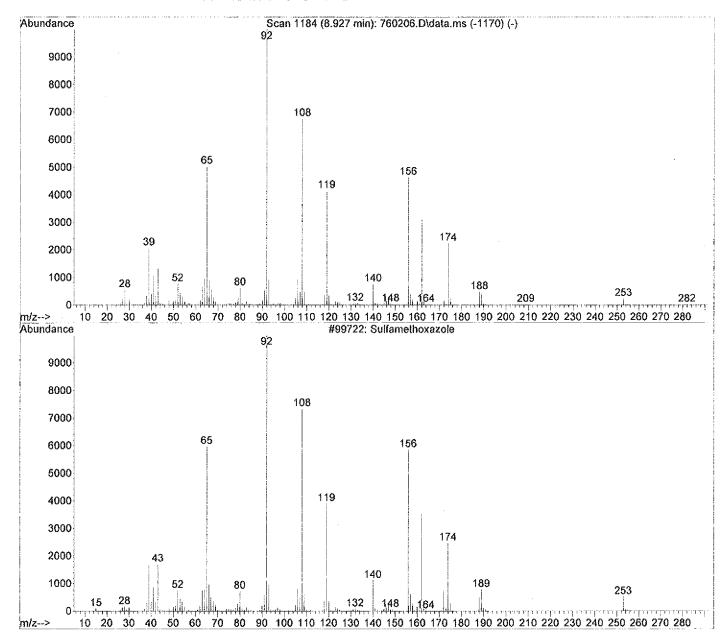


Ret. Time	Area	Area %	Ratio %
8.927	492083	75.63	100.00
9.952	158565	24.37	32.22

Library Searched : C:\Database\NIST08.L

Quality : 91

ID : Sulfamethoxazole



File Name : D:\System8\12_10_10\760206.D

DJR Operator

Date Acquired 10 Dec 2010 12:04 Sample Name SULFAMETHOXAZOLE STD

Submitted by

Vial Number

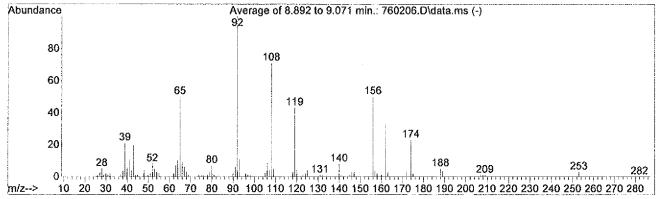
AcquisitionMeth: GENSCN.M

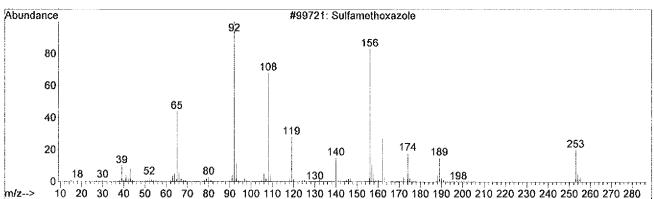
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

 PK#	RT	Library/ID	CAS#	Qual			
1	8.93	C:\Database\NIST08.L					
		Sulfamethoxazole	000723-46-6	80			
		4-(2-Methoxybenzylideneamino)benzen	193803-91-7	64			
		Asulam	003337-71-1	59			





File Name : D:\System8\12 10 10\760206.D

Operator DJR

10 Dec 2010 12:04 Date Acquired Sample Name SULFAMETHOXAZOLE STD

Submitted by

Vial Number 6

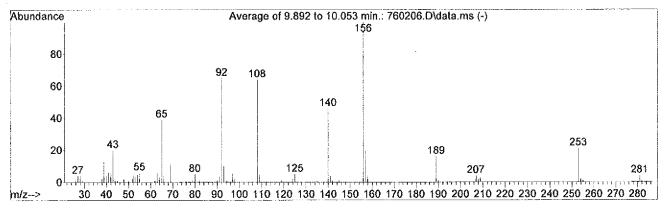
AcquisitionMeth: GENSCN.M

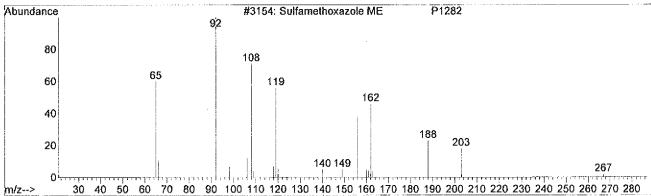
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

	PK#	RT	Library/ID		CAS#	Qual
-	2	9.95	C:\Database\PMW_TOX2.L			
			Sulfamethoxazole ME		000000-00-0	28
			Pentobarbital-M (HO-)	@	004241-40-1	9
			Pentobarbital	9	000076-74-4	7





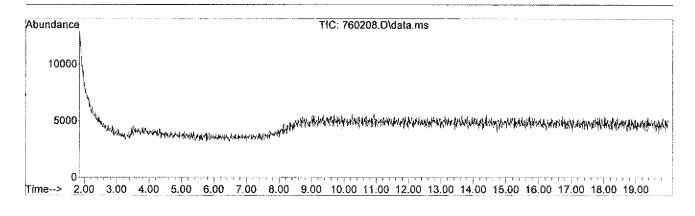
File Name : D:\System8\12_10_10\760208.D Operator : DJR

Date Acquired : 10 Dec 2010 12:50

: BLANK Sample Name Submitted by : ASD Vial Number

AcquisitionMeth: GENSCN.M

Integrator : RTE



Ret. Time

Area

Area 용 Ratio %

NO INTEGRATED PEAKS

File Name : D:\System8\12_10_10\760209.D

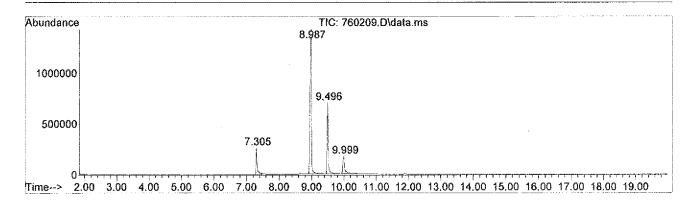
Operator : DJR

Date Acquired : 10 Dec 2010 13:13

Sample Name : Submitted by : ASD

Vial Number : 9 AcquisitionMeth: GENSCN.M

Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
7.305	656904	9.07	15.69	
8.987	4185937	57.80	100.00	
9.496	1696701	23.43	40.53	
9.999	702657	9.70	16.79	

File Name : D:\System8\12_10_10\760209.D

Operator : DJR

Date Acquired : 10 Dec 2010 13:13

Sample Name Submitted by

Vial Number

ASD 9

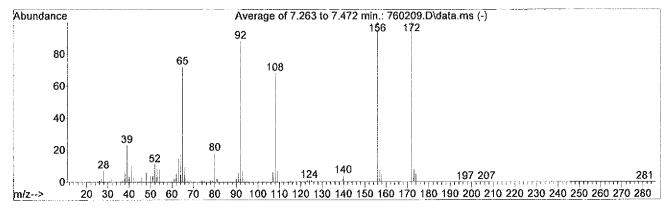
AcquisitionMeth: GENSCN.M

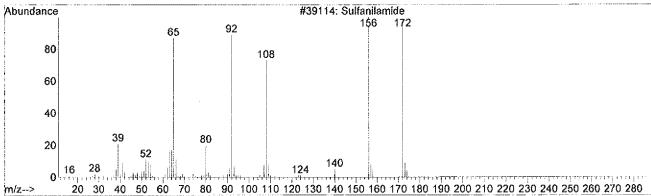
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

			* Money		
	PK#	RT	Library/ID	CAS#	Qual
-	1	7.30	C:\Database\NIST08.L	-	
			Sulfanilamide	000063-74-1	98
			Sulfanilamide	000063-74-1	97
			Sulfanilamide	000063-74-1	95



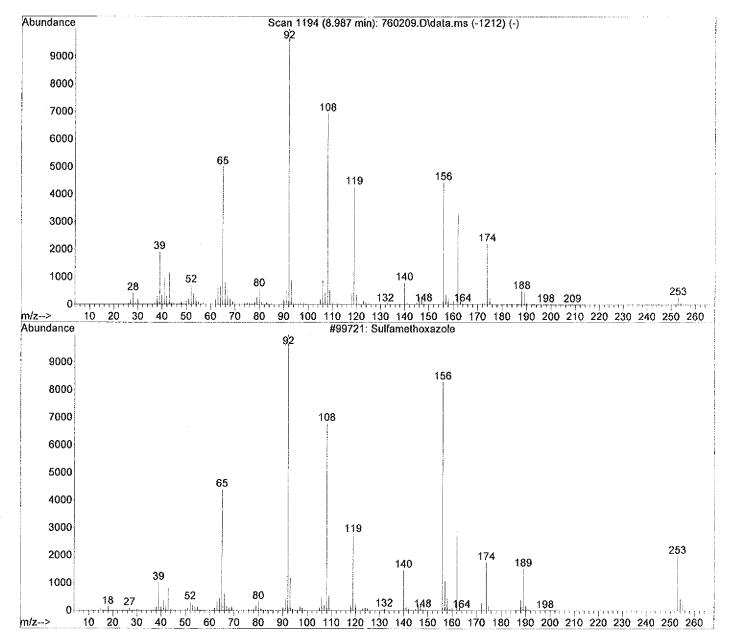


Library Searched : C:\Database\NIST08.L

Quality

80 ID

Sulfamethoxazole



File Name : D:\System8\12_10_10\760209.D

Operator : DJR

Date Acquired : 10 Dec 2010 13:13

Sample Name : Submitted by : ASD Vial Number : 9

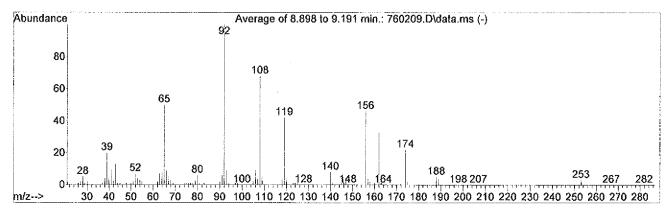
AcquisitionMeth: GENSCN.M

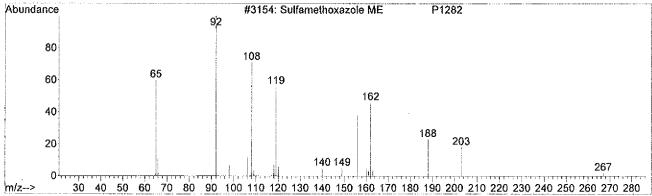
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

PK#	RT	Library/ID		CAS#	Qual
2	8.99	C:\Database\PMW_TOX2.L			
		Sulfamethoxazole ME		000000-00-0	80
		Sulfanilamide	@	000063-74-1	32
		Sulfamethoxazole 2ME		000000-00-0	12





File Name : D:\System8\12_10_10\760209.D

Operator : DJR

Date Acquired : 10 Dec 2010 13:13

Sample Name : Submitted by :

ASD 9

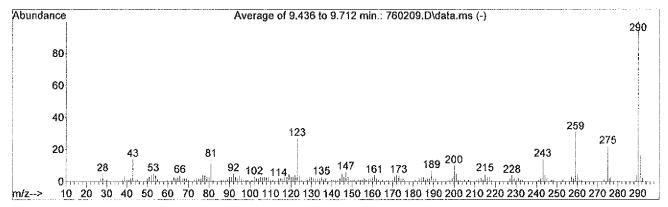
Vial Number : 9
AcquisitionMeth: GENSCN.M

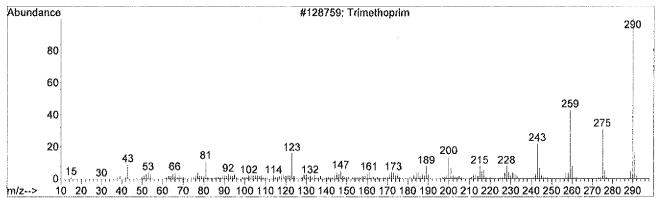
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

		· · · · · · · · · · · · · · · · · · ·		
PK#	RT	Library/ID	CAS#	Qual
3	9.50	C:\Database\NIST08.L		
		Trimethoprim	000738-70-5	99
		Trimethoprim	000738-70-5	99
		Trimethoprim	000738-70-5	99





File Name : D:\System8\12 10 10\760209.D

Operator : DJR

Date Acquired : 10 Dec 2010 13:13

ASD

Sample Name : Submitted by :

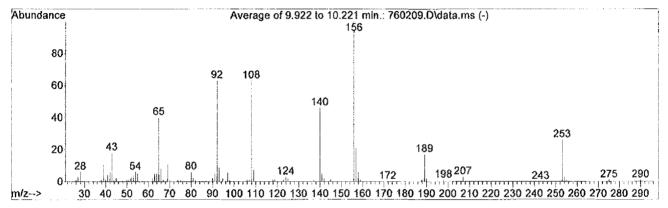
Vial Number : 9
AcquisitionMeth: GENSCN.M

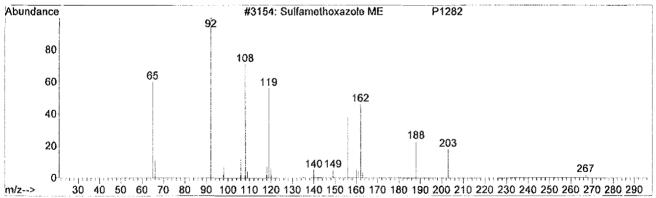
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

		, minutes and minu		
PK#	RT	Library/ID	CAS#	Qual
 4	10.00	C:\Database\PMW TOX2.L		
		Sulfamethoxazole ME	000000-00-0	28
		Amobarbital	000057-43-2	9
		Butobarbital-M (HO-)	003802-63-9	4





File Name : D:\System8\12_10_10\760211.D

Operator : DJR

Date Acquired : 10 Dec 2010 13:59

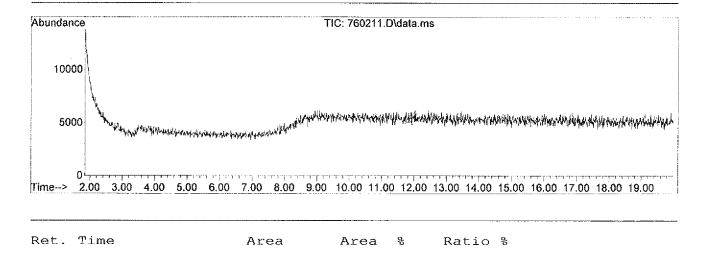
Sample Name : BLANK

Submitted by

Vial Number

AcquisitionMeth: GENSCN.M

Integrator ; RTE



NO INTEGRATED PEAKS

File Name : D:\System8\12_10_10\760212.D

Operator : DJR

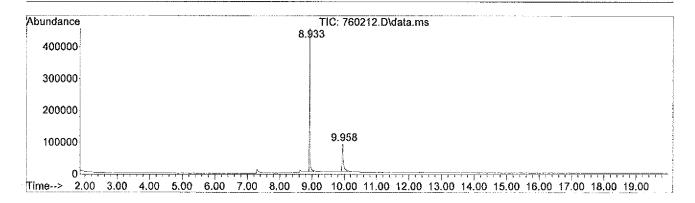
Date Acquired : 10 Dec 2010 14:22 Sample Name : SULFAMETHOXAZOLE STD

Submitted by :

Vial Number : 6

AcquisitionMeth: GENSCN.M

Integrator : RTE



Ret. Time	Area	Area %	Ratio %
8.933		69.96	100.00
9.958		30.04	42.94

File Name : D:\System8\12_10_10\760212.D

Operator : DJR

Date Acquired : 10 Dec 2010 14:22 Sample Name : SULFAMETHOXAZOLE STD

Submitted by :

Vial Number : 6

AcquisitionMeth: GENSCN.M

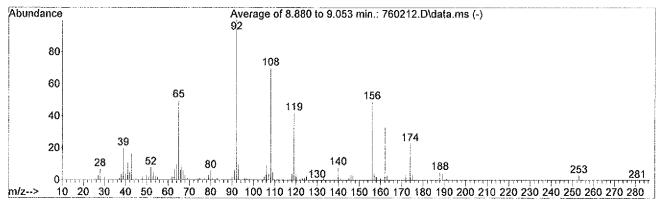
Integrator : RTE

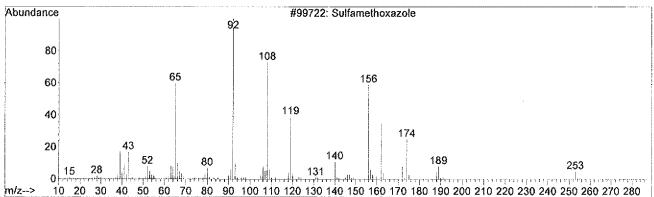
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

		•		
PK#	RT	Library/ID	CAS#	Qual
1	8.93	C:\Database\NIST08.L	S 10-40 5-40 10-40	
		Sulfamethoxazole	000723-46-6	94
		Sulfamethoxazole	000723-46-6	81
		Asulam	003337-71-1	59





Minimum Quality: 80

File Name : D:\System8\12_10_10\760212.D

Operator : DJR

Date Acquired : 10 Dec 2010 14:22 Sample Name : SULFAMETHOXAZOLE STD

Submitted by : Vial Number : 6

AcquisitionMeth: GENSCN.M

Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

PK#	RT	Library/ID	CAS#	Qual
2	9.96	C:\Database\NIST08.L Sulfamethoxazole	000723-46-6	90
		Sulfasomizole 4-Aminophenyl chlorodifluoromethyl	000632-00-8 074171-46-3	72 64

